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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/851,214	05/08/2001	Guido Voit	48839DIV	4235
26474	7590 12/26/2002			
KEIL & WEINKAUF			EXAMINER	
1350 CONNECTICUT AVENUE, N.W. WASHINGTON, DC 20036			SACKEY, EE	BENEZER O
			ART UNIT	PAPER NUMBER
			1626	
			DATE MAILED: 12/26/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

Applicant(s)

09/851,214

VOIT ET AL.

Examiner

**EBENEZER SACKEY** 

Art Unit **1626** 



	The MAILING DATE of this communication appears	on the cover she	eet with	the correspondence address		
	for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.						
- Extens	ions of time may be available under the provisions of 37 CFR 1.136 (a). In	no event, however, m	nay a reply i	be timely filed after SIX (6) MONTHS from the		
- If the p	g date of this communication. period for reply specified above is less than thirty (30) days, a reply within th	· ·	•			
	period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause th	·				
-	ply received by the Office later than three months after the mailing date of the patent term adjustment. See 37 CFR 1.704(b).	his communication, ev	en if timely	y filed, may reduce any		
Status						
1) 💢	Responsive to communication(s) filed on <u>Dec 4, 20</u>	)02				
2a) 🗌	This action is <b>FINAL</b> . 2b)   ✓ This action	ion is non-final.	•			
3) 🗆	Since this application is in condition for allowance e closed in accordance with the practice under Ex pair	•				
Disposit	tion of Claims			·		
4) 🗶	Claim(s) <u>21-40</u>			is/are pending in the application.		
4	a) Of the above, claim(s)			is/are withdrawn from consideration.		
5) 🗌	Claim(s)	,		is/are allowed.		
6) 💢	Claim(s) 21-40			is/are rejected.		
7) 🗌	Claim(s)			is/are objected to.		
8) 🗌	Claims	are	subject	t to restriction and/or election requirement.		
Applica	tion Papers					
9) 🗌	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	a) 🗆 accepted	d or b)	$\square$ objected to by the Examiner.		
	Applicant may not request that any objection to the d	rawing(s) be hel	d in abe	yance. See 37 CFR 1.85(a).		
11)	The proposed drawing correction filed on	is:	a) 🗌 a	approved b) $\square$ disapproved by the Examiner.		
	If approved, corrected drawings are required in reply t	to this Office act	tion.			
12)	The oath or declaration is objected to by the Exami	ner.				
	under 35 U.S.C. §§ 119 and 120					
_	Acknowledgement is made of a claim for foreign pr	iority under 35	U.S.C.	§ 119(a)-(d) or (f).		
a) lx	☐ All b)☐ Some* c)☐ None of:					
	1. Certified copies of the priority documents have been received.					
	2. X Certified copies of the priority documents have been received in Application No. 09/622,773 .					
	<ol> <li>Copies of the certified copies of the priority do application from the International Bures se the attached detailed Office action for a list of the</li> </ol>	au (PCT Rule 11	7.2(a)).	·		
_	Acknowledgement is made of a claim for domestic					
	The translation of the foreign language provisional					
15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachmo		<i>p</i>		0. 33 . 12 00,5 12.11		
1) 🔀 No	tice of References Cited (PTO-892)	4) Interview Sun	nmary (PT(	0-413) Paper No(s)		
2) No	tice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Info	mal Paten	nt Application (PTO-152)		
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)						

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#### **DETAILED ACTION**

Claims 21-40 are pending. Claims 33-40 have been added.

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 12/04/02 has been entered.

## Claim Rejections - 35 U.S.C. § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having

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ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 3. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 4. Claims 21-32 and new claims 33-40 are rejected under 35
  U.S.C. 103(a) as being unpatentable over Dewdney (I) or (II) and Flick et al. for the reasons set forth in paper number 3 and 7 respectively. Applicant's arguments are not deemed persuasive.

Applicant's arguments filed 12/04/02 have been fully considered but they are not persuasive. Applicants argue that Dewdney et al. disclose that the presence of magnetite in an iron catalyst which is used for hydrogenating adiponitrile to hexamethylene diamine increases the

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formation of impurities. Additionally, applicants argue that the teaching of Dewdney et al. specifically aims at reducing unwanted by-products in the hydrogenation of adiponitrile to hexamethylene diamine and thus, to the skilled artisan who seeks to reduce the formation of such by-products. Dewdney et al.'s statement that the catalyst is preferably obtained from iron or iron oxide without other additions or promoters is of particular significance. This argument is unpersuasive because the instant claims are directed to hydrogenation catalyst consisting essentially of iron or a compound based on iron or mixtures thereof which reads on the disclosure of Dewdney et al. The stipulated ratios of (b)-(d) are well within the disclosure of Dewdney et al. Applicants perception of the invention is not what is in the claims, especially independent claims 21 and 33. Dewdney et al. disclose the essentials of the claims. In claim 22, magnetite is optional therefore it does not need to be in the claim. Limiting the scope of the claims to what the art does not disclose may obviate this rejection. Applicants next argue that the mere fact that a reference can be modified or that references can be combined does not render the resulting modification

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or combination obvious unless the prior art suggest the desirability of the combination. Applicants claims are very generic and therefore read on Dewdney et al. Moreover, no showing of unexpected results or properties has been forthcoming.

Applicants next argue that neither of the Dewdney et al.'s references discloses the use of manganese which is mandatory in the amounts of from 0.001 to 1% by weight based on the iron component of (a). This argument is unpersuasive because Flick et al. disclose the use of manganese in the hydrogenation catalyst which embraces the instant invention. See column 2, lines 13-22. Applicants next argue that the catalyst of Flick et al. relates to hydrogenation of dinitriles to amino nitriles which is partial hydrogenation, whereas applicants invention is directed to complete hydrogenation and thus, the catalyst of Flick et al. is not concerned with a catalyst which is suitable to limit or reduce the formation of unwanted by-products in a complete reduction of adiponitrile to hexamethylene diamine. Again, no showing of unexpected results has been forth coming. Additionally, applicants have not shown that the catalyst of Flick et al. is inoperative in a

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art from the instantly claimed subject matter. Accordingly, one of ordinary skill in the art would be motivated to manipulate process parameters of the references such as ratios (as note instant claims 21, 29-30, 33, 38-40) in order to improve yield and/or selectivity as taught. For the reasons of record, claims 21-32 and new claims 33-40 are rejected.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to E. Sackey whose telephone number is (703) 305-6889. The examiner can normally be reached on Monday-Friday from 7:30 am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph K. McKane, can be reached on (703) 308-4537. The fax phone number for this Group is (703) 308-4556.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-1235.

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**EOS** 

December 24, 2002

Joseph K. McKane

**Supervisory Patent Examiner** 

Art Unit 1626, Group 1600

**Technology Center 1** 

ALAN L. ROTMAN SUPERVISORY PATENT EXAMINER

alan L Rotman

**TECHNOLOGY CENTER 1600**